

Project Estimate Report: Development Phase

for

T10053 Mason/Skidmore Greenway

Feb 2023

Requested by: Mimi Phillips

Prepared by: Mario de la Rosa

Location: NE Skidmore St between NE 40th Ave to NE 47th Ave and NE Mason Street between NE 47th Ave to NE 77th Ave

Description: This project will add bike striping (sharrows), crosswalks, speed humps, signs, and luminaires along NE Skidmore St between NE 40th Ave to NE 47th Ave and NE Mason St between NE 47th Ave and NE 77th Ave. The project will also reconstruct ADA ramps at intersection of NE Skidmore St @ NE 42nd Ave and at the intersection of NE Mason St @ NE Cully Blvd. Effort will also add Tri-Me bus stop landings, constructing 17-inch pavement repair at each curb ramp. Concrete median nose will be added to existing medians located along NE Cully Blvd.

Current Cross-Section: Varying frontage zone, limited curb on either side of street, and many undeveloped driveways, varying curb-to-curb street width, and center street paving.

Proposed Cross-Section: Existing cross section to remain. Bike sharrows will be added.

Issues:

- Water – None identified. No Design Exceptions required.
- BES (storm, sanitary, water-quality facilities) – Existing inlets outside scope of work. No new inlets are required.
- Signals and Street Lighting – Lighting infill in coordination with SSL.
- Environmental and Zoning – None Identified.
- Contaminated Media – DEQ lust site checked. All sites found nearby have been mitigated.
- Right-of-Way Needs – None identified
- Railroads (BNSF; UPRR; PTTR) – None identified
- Parks (landscaping and irrigation) – None identified
- Other Jurisdictions (counties, schools, Port, ODOT, Tri-Met) – Tri-Met

Cost Estimate:




Total Construction	\$ 536,000
Project Management (5%)	\$ 24,000
Design Engineering (30%)	\$ 139,000
Construction Management (15%)	\$ 70,000

Right-of-Way (Cost + 30% Contingency)	\$ -
Overhead (74.97%)	\$ 175,000
Total Inflation and Allowance for Design Refinement	\$ 506,000
Subtotal	\$ 1,450,000
Total Project Estimate	\$ 1,450,000


Estimating Assumptions:

- Assumptions regarding existing conditions are based on GIS and Google Street View dated, June 2019.
- Assumes each corner will receive 17-inch pavement repair.
- Assumes no R/W acquisition will be required. Permit of entry may be required at SW and SE corner of NE Cully Blvd and NE Mason St.
- Assumes all ADA ramps and sidewalks will be monolithic.
- Assumes (2) bus landings each side for total of (4) along NE 42nd Ave@ NE Skidmore St. are estimated to be monolithic for purpose of this estimate.
- General excavation- 6-inch depth calculated for sidewalk and ADA ramps.
- Street lighting estimate provided by Justin Perez with SSL.
- Traffic assumptions provided by Sam Godon with TDS.
- Overhead (74.97%) includes Project Management, Design Engineering and Construction Management.
- The years of inflation for this project is 5 years.
- The allowance for design refinement is 20%.
- The level of confidence for this estimate is low.

Approval:

REVIEWED BY SUPERVISING ENGINEER	DATE
	03/27/23
CONCURRED BY DIVISION MANAGER	DATE
	03/27/23
APPROVED BY CITY ENGINEER	DATE
	03/28/23

ENGINEER OF RECORD
PROFESSIONAL ENGINEERING STAMP



Expires 12/31/23

Attachments:

- Detailed estimate spreadsheet
- Site map

Version: January 2023

Agency	City of Portland Bureau of Transportation
Title	Engineer's Estimate for 2020 Standard Construction Specifications
Stage	Preliminary
Project Name	Mason/Skidmore Greenway
Project No.	T01053
Date	February 21, 2023
Engineer	Mario de la Rosa

##### BID ITEMS #####						
BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	1	\$ 46,570.21	\$ 46,570.21
2	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	0221	LS	1	\$ 18,628.08	\$ 18,628.08
6	TEMPORARY SIGNS	0222	SQFT	140.0	\$ 24.00	\$ 3,360.00
7	FLAGGERS	0223	HOURL	96.0	\$ 64.30	\$ 6,172.80
8	TRAFFIC CONTROL SUPERVISOR	0223	LS	1	\$ 2,415.00	\$ 2,415.00
12	TEMPORARY BARRICADES, TYPE II	0224	EACH	4	\$ 75.00	\$ 300.00
13	TEMPORARY BARRICADES, TYPE III	0224	EACH	4	\$ 135.80	\$ 543.20
27	CHANNELIZING DEVICES	0228	FOOT	300.0	\$ 33.90	\$ 10,170.00
29	TEMPORARY WALKS	0228	SQFT	300.0	\$ 14.25	\$ 4,275.00
32	EROSION CONTROL	0280	LS	1	\$ 4,657.02	\$ 4,657.02
36	POLLUTION CONTROL PLAN	0290	LS	1	\$ 1,510.00	\$ 1,510.00
50	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	0310	LS	1	\$ 18,628.08	\$ 18,628.08
51	CLEARING AND GRUBBING	0320	LS	1	\$ 6,985.53	\$ 6,985.53
53	GENERAL EXCAVATION	0330	CUYD	60.0	\$ 50.56	\$ 3,033.60
99	LEVEL 2, 1/2 INCH, ACP MIXTURE WITH PG 64-22 ASPHALT	0744	TON	35.00	\$ 145.00	\$ 5,075.00
107	17 INCH ASPHALT CONCRETE PAVEMENT REPAIR, COMPLETE	0748	SQYD	100.0	\$ 145.00	\$ 14,500.00
109	22 FOOT ASPHALT SPEED BUMPS	0749	EACH	23	\$ 3,525.00	\$ 81,075.00
121	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	3,150.0	\$ 22.75	\$ 71,662.50
146	PAVEMENT LEGEND, TYPE B-HS: [SPEED BUMP MARKING]	0867	EACH	24	\$ 275.00	\$ 6,600.00
146	PAVEMENT LEGEND, TYPE B-HS: [SHARROW]	0867	EACH	85	\$ 275.00	\$ 23,375.00
147	PAVEMENT BAR, TYPE B-HS	0867	SQFT	660.0	\$ 9.60	\$ 6,336.00
149	GREEN BICYCLE LANE, METHYL METHACRYLATE	0868	SQFT	500.0	\$ 7.90	\$ 3,950.00
152	SIGN SUPPORT FOOTINGS, BREAKAWAY	0920	EACH	155	\$ 237.20	\$ 36,765.23
153	PIPE SIGN SUPPORTS	0930	EACH	155	\$ 219.87	\$ 34,079.85
156	SIGNS, STANDARD SHEETING, SHEET ALUMINUM	0940	SQFT	820.0	\$ 31.75	\$ 26,035.00
159	LIGHTING POLES	0970	EACH	4	\$ 3,500.00	\$ 14,000.00
160	LIGHTING POLE ARMS	0970	EACH	4	\$ 1,500.00	\$ 6,000.00
161	LUMINAIRES	0970	EACH	6	\$ 1,500.00	\$ 9,000.00
TOTAL BID ITEMS						\$ 465,702.10

##### ANTICIPATED ITEMS #####						
ANTICIPATED ITEM NO.	ITEMS OF WORK AND MATERIALS		UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION		LS	0	\$ -	\$ -
2	RELOCATE WATER FACILITIES - FIRE HYDRANT		EACH	0	\$ 25,745.00	\$ -
3	RELOCATE WATER FACILITIES - METER		EACH	0	\$ 7,160.00	\$ -
4	STREET LIGHTING - UPGRADE LUMINAIRES		EACH	0	\$ 600.00	\$ -
5	STREET LIGHTING - INSTALL ARMS AND LUMINAIRES		EACH	0	\$ 5,000.00	\$ -
6	CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY MO		EACH	0	\$ 1,000.00	\$ -
7	SELF-PERFORMED WORK BY PBOT SSL		LS	1		\$ -
8	POWER CONNECTIONS		LS	1		\$ -
9	PLANT TREES AND ESTABLISHMENT BY OTHERS		EACH	0	\$ 1,000.00	\$ -
10	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT		SQFT	0.0	\$ 20.00	\$ -

11	OFFSITE STORMWATER MANAGEMENT FEE	SQFT	0.0	\$ 3.89	\$ -
12	ROCK EXCAVATION	CUYD	0.0	\$ 106.00	\$ -
13	RAILROAD PROTECTION SERVICES (ONE YEAR)	LS	0	\$ 100,000.00	\$ -
14	ASPHALT CEMENT ESCALATION	LS	1	\$ -	\$ -
15	FUEL ESCALATION	LS	1	\$ -	\$ -
16	STEEL ESCALATION	LS	1	\$ -	\$ -
17	TESTING CONTAMINATED MEDIA	LS	0	\$ 5,000.00	\$ -
18	CONTAMINATED MEDIA TIPPING FEES	TON	0.00	\$ 33.50	\$ -
19	BOLI FEE PAYMENT	LS	1	\$ 465.70	\$ 465.70
20	CONTRACT CONTINGENCY	LS	1	\$ 46,570.21	\$ 46,570.21
TOTAL ANTICIPATED ITEMS					\$ 47,035.91

##### CONSTRUCTION ESTIMATE SUMMARY #####				
TOTAL BID ITEMS				\$ 465,702
CONSTRUCTION CONTINGENCY		5% of Bid Items		\$ 23,285
SUBTOTAL				\$ 488,987
ANTICIPATED ITEMS				\$ 47,036
TOTAL CONSTRUCTION				\$ 536,023

For 60%, 95%, and Final estimates stop here. The PM will add soft costs. Hide rows 230-254 below.				
PROJECT MANAGEMENT		5% of Bid Items		\$ 23,285
DESIGN ENGINEERING		30% of Bid Items		\$ 139,711
CONSTRUCTION MANAGEMENT		15% of Bid Items		\$ 69,855
PROJECT MANAGEMENT OVERHEAD		74.97% of PE		\$ 17,457
DESIGN ENGINEERING OVERHEAD		74.97% of DE		\$ 104,741
CONSTRUCTION MANAGEMENT OVERHEAD		74.97% of CM		\$ 52,370
TOTAL PROJECT ENGINEERING & MANAGEMENT				\$ 407,419
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES				\$ -
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION				\$ -
RIGHT-OF-WAY CONTINGENCY		30% of L&I&D		\$ -
TOTAL PROJECT RIGHT-OF-WAY				\$ -
	Years	Inflation		
INFLATION RATE ON CONSTRUCTION CONTRACT	5	5.1% of Construction		\$ 151,357
INFLATION RATE ON PERSONNEL COSTS	5	5.0% of Eng. & Mgmt.		\$ 112,562
ALLOWANCE FOR DESIGN REFINEMENT		20% of Const. Eng. & Mgmt., and Inflation		\$ 241,472
TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT				\$ 505,391
2% FOR ART		Eligible Costs		\$ 536,023
2% FOR ART		Eligible Funds		\$ 50,000
		2% of Eligible Funds		\$ 1,000
TOTAL PROJECT ESTIMATE				\$ 1,449,834



NE 47TH AVE.

NE SKIDMORE ST.

N

N.T.S.

- 17" Asphalt repair
- Monolithic curb and sidewalk
- Concrete island





NE SKIDMORE ST – 37TH TO CC BLVD

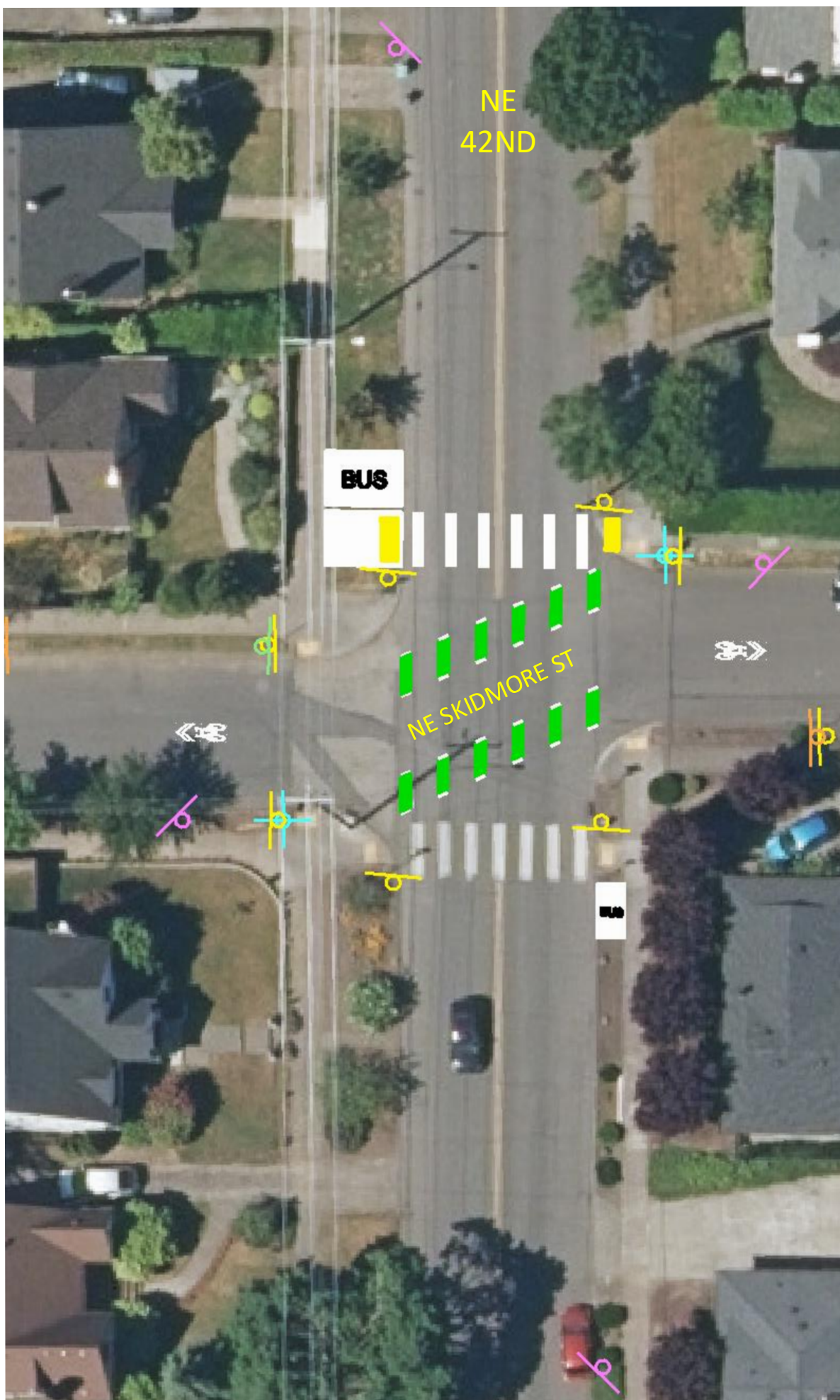


NE SKIDMORE ST - 40TH & 41ST



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NE SKIDMORE ST – 42ND





NE SKIDMORE ST – 42ND TO 47TH





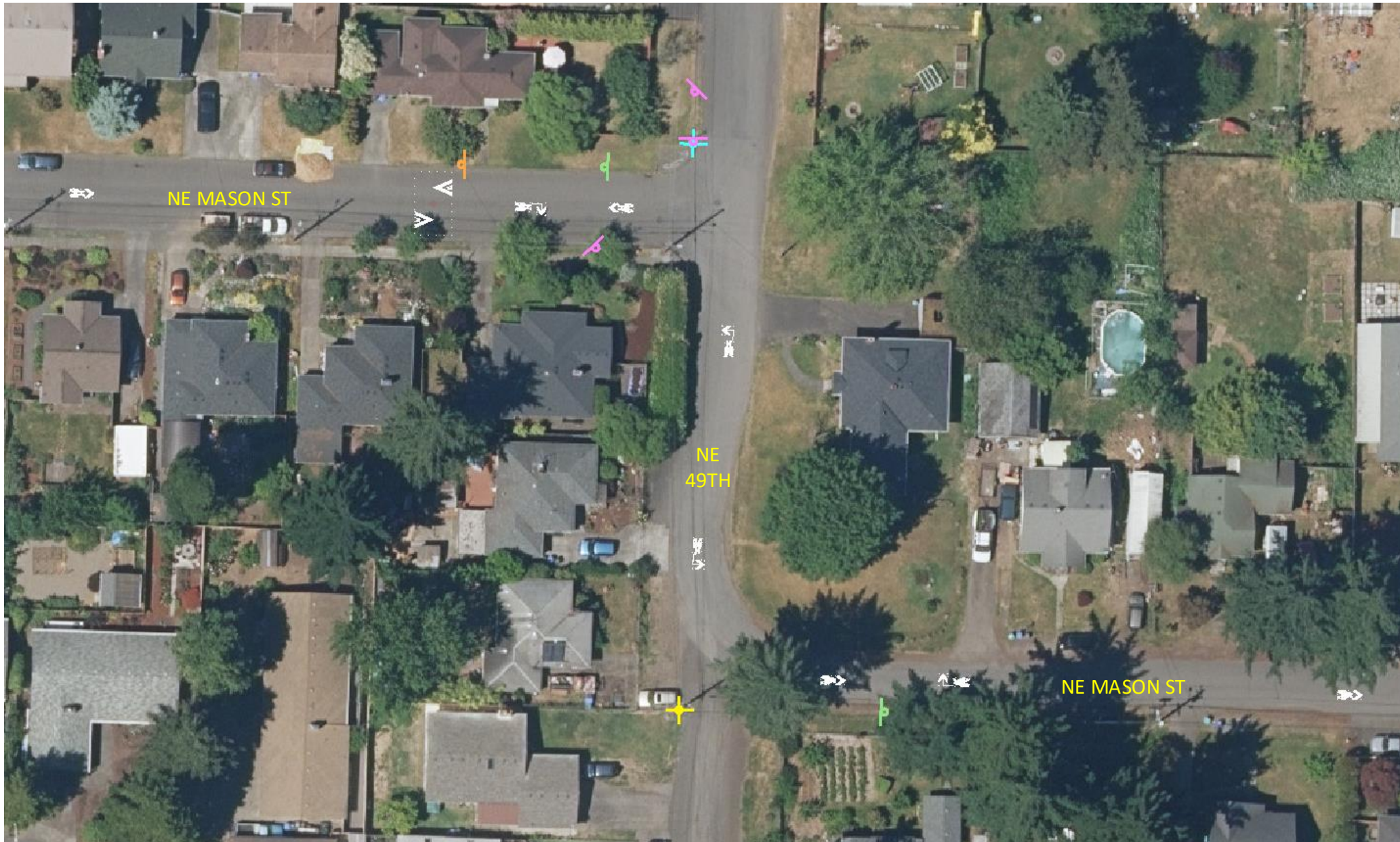
NE SKIDMORE ST – 47TH







NE MASON ST – 49TH





NE MASON ST – 49TH TO 54TH



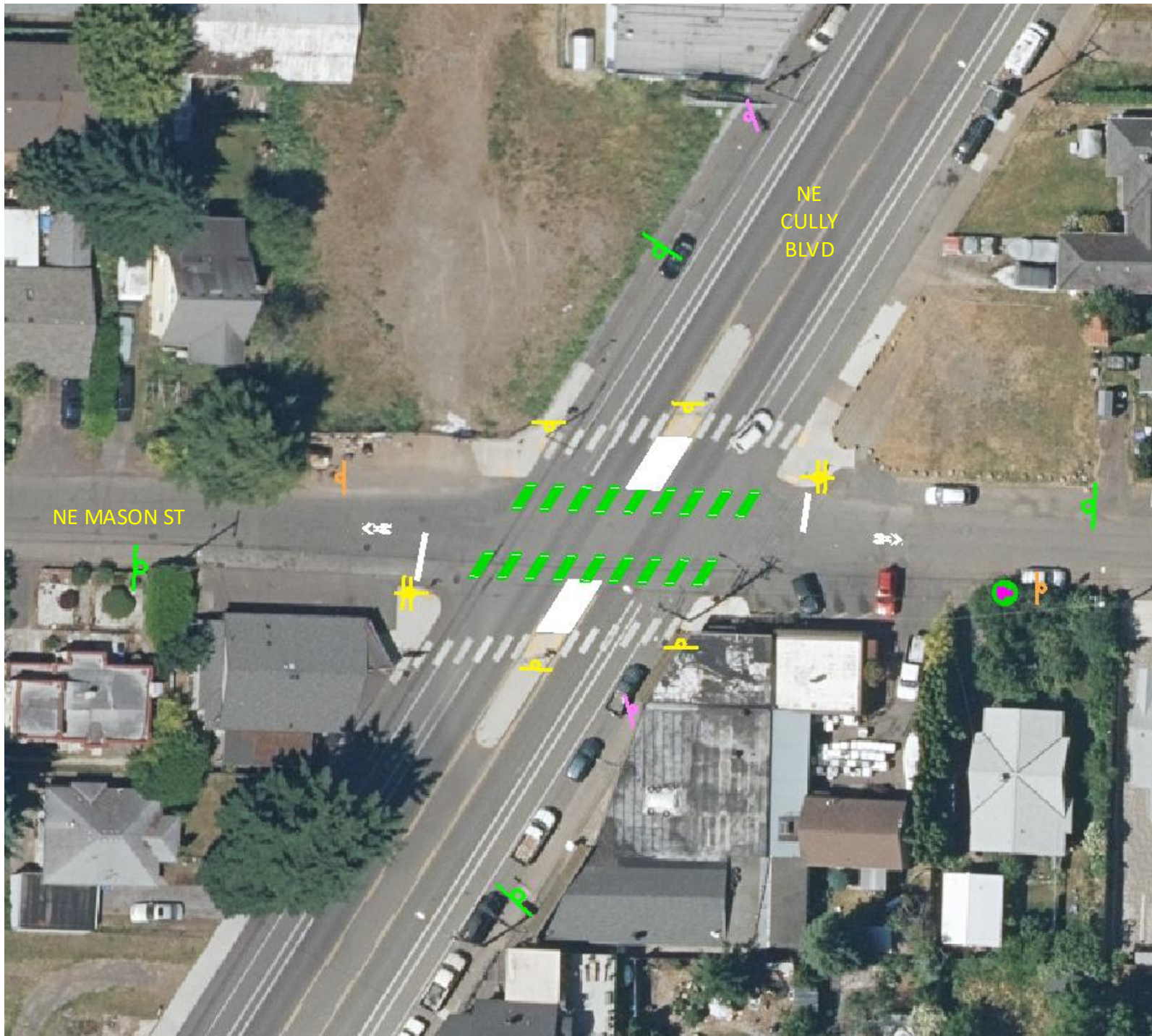


NE MASON ST – 54TH TO CULLY



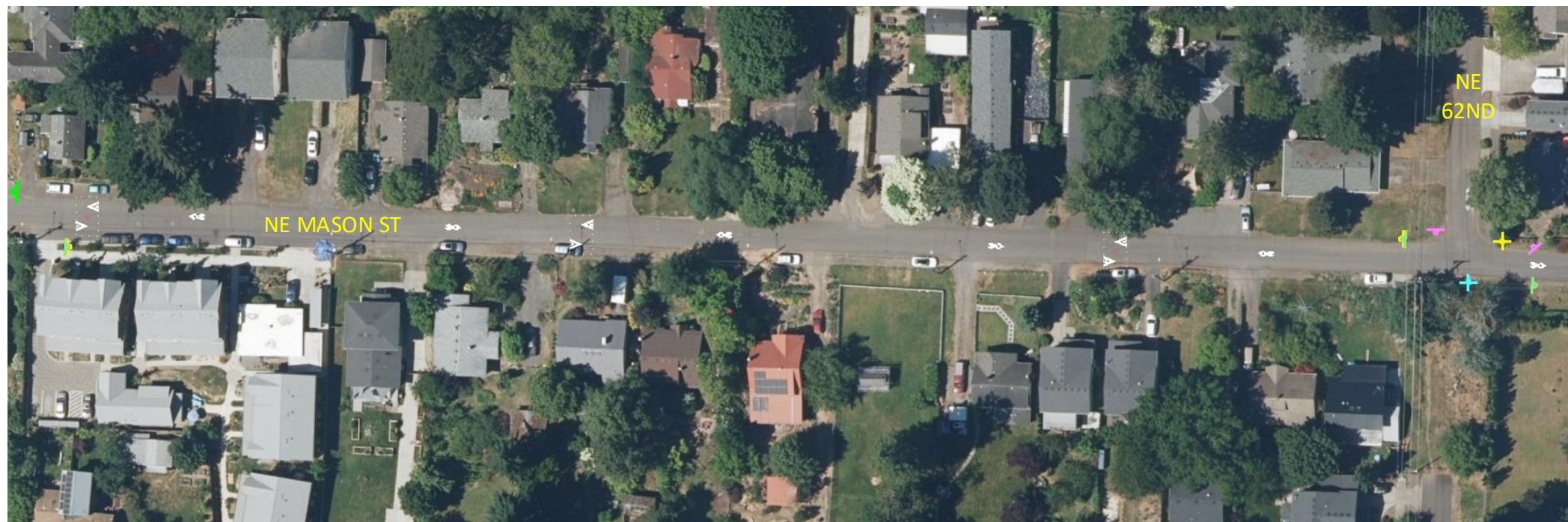


NE MASON ST – CULLY





NE MASON ST – CULLY TO 62ND





NE MASON ST – 62ND TO 66TH





NE MASON ST – 66TH TO 68TH



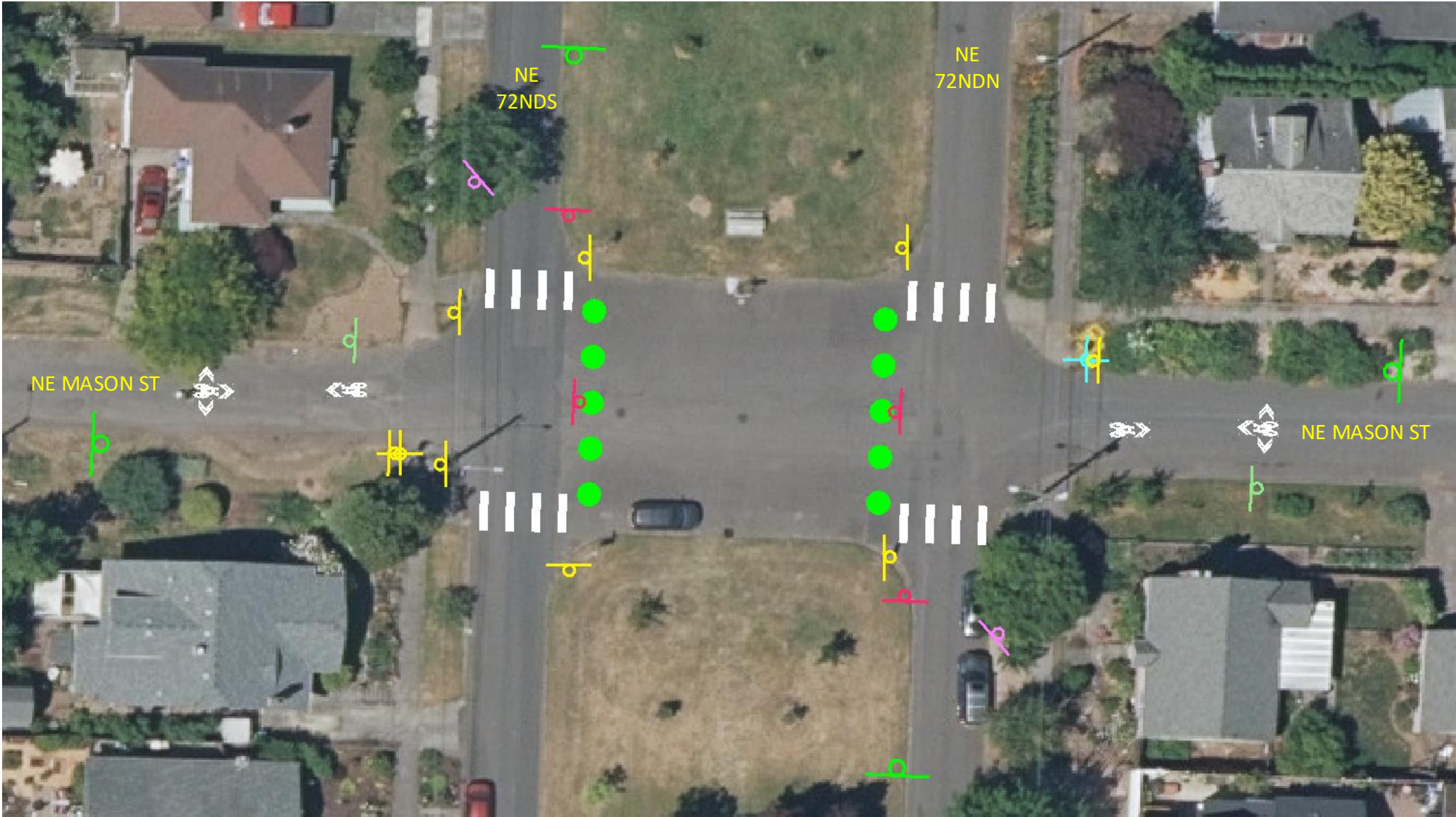


NE MASON ST – 68TH TO 72ND





NE MASON ST – 72ND



NE MASON ST - 72ND TO 76TH



NE MASON ST – 76TH TO 77TH



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Jason Shepard

jason.shepard@portlandoregon.gov

Engineer

City of Portland Bureau of Transportation

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Steve Townsend

steve.townsen@portlandoregon.gov

City Engineer

City of Portland

Security Level: Email, Account Authentication
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Signature Adoption: Uploaded Signature Image

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Operating Systems:	Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari®, 3.0 or above (Mac only)
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Screen Resolution:	800 x 600 minimum
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